



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105-3901

Date: 03/15/00

MEMORANDUM

SUBJECT: Transmittal of Data

From: Vance S. Fong, P.E., Manager  
Quality Assurance Office

A handwritten signature in black ink, appearing to read "Vance S. Fong".

TO: Craig Cooper, Remedial Project Manager  
HI/NV/CA Cleanup Section, SFD-7-4

The QA Office is providing you the attached data validation reports completed by our data validation contractor (Data Val, Inc.). The Quality Assurance Office has not reviewed the validation reports. If you have any question pertaining to the content of the attached reports, please contact Dawn Richmond of the QA Office at 744-1494.

Attachments

cc: Brenda Bettencourt, PMD-2

MEMORANDUM

TO: Craig Cooper  
Remedial Project Manager, SFD-7

FROM: Donna Breau *DB 2/7/00*  
Senior Reviewer  
DataVal, Inc.

DATE: January 26, 2000

SUBJECT: Review of Analytical Data

Attached are comments resulting from DataVal, Inc. review of the following analytical data:

SITE: Newmark Source OU Superfund  
SITE ACCOUNT NO.: J5  
CERCLIS I.D. NO.: CAD981434517  
CASE NO.: R99S30  
SDG NO.: 99111D

LABORATORY: EPA Region 9 Laboratory, Richmond, CA  
ANALYSIS: Perchlorate

SAMPLE NO.: 20 Water Samples (See Case Summary)

COLLECTION DATE: April 15, 20, 21, and 22, 1999

REVIEWER: Lisa Norosky, DataVal, Inc.

If there are any questions, please contact Donna Breau (DataVal, Inc.) at (415) 459-3124, or Marlon Mezquita (QA Office/EPA) at (415) 744-1499.

Attachment

TPO: ☐ FYI ☐ Attention ☐ Action

SAMPLING ISSUES: ☐ Yes ☒ No

### Data Validation Report

Case No.: R99S30  
Site: Newmark Source OU Superfund  
Laboratory: EPA Region 9 Laboratory (R9)  
Reviewer: Lisa Norosky, DataVal, Inc.  
Date: January 26, 2000

#### I. Case Summary

##### SAMPLE INFORMATION:

SAMPLE #: 50084, 50083, 50075, 50079, 50080, 50081,  
50078, 50063, 50064, 50000, 50001, 50002,  
50003, 50004, 50005, 50048, 50050, 50051,  
50052, and 50053

COLLECTION DATE: April 15, 20, 21, and 22, 1999  
SAMPLE RECEIPT DATE: April 21 and 23, 1999

CONCENTRATION & MATRIX: Low Level Water

FIELD QC: Field Blanks (FB): 50081 and 50052  
Equipment Blanks (EB): None.  
Background Samples (BG): None.  
Duplicates (D1): 50079 and 50080  
(D2): 50050 and 50051

LABORATORY QC: Matrix Spike: 50079  
Duplicates: 50079  
ICP Serial Dilution: N/A

ANALYSIS: Perchlorate

##### METHOD BLANKS AND ASSOCIATED SAMPLES:

LRB AB22066: 50084, 50083, 50075, 50079, 50080, 50081,  
50078, 50063, 50064, 50000, 50001, 50002,  
50003, 50004, 50005, 50048, 50050, 50051,  
50052, and 50053

### Sample Preparation

<u>Analyte</u>	<u>Digestion Date</u>	<u>Analysis Date</u>
Perchlorate	Not Applicable	April 26 and May 13, 1999

Percent Solids Not Applicable

**TPO ACTION:** None.

**TPO ATTENTION:** None.

**SAMPLING ISSUES:** None.

**ADDITIONAL COMMENTS:**

All method requirements specified in the EPA Contract Laboratory Program (CLP) Inorganic Statement of Work (SOW) have been met.

The analytical results with qualifications are listed in Table 1A. The definitions of the data qualifiers used in Table 1A are listed in Table 1B. This report was prepared in accordance with the EPA Contract Laboratory Program Inorganic Statement of Work (ILM04.0); and the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," February 1994.

## II. Validation Summary

The data were evaluated based on the following parameters:

	<u>Parameter</u>	<u>Acceptable</u>	<u>Comment</u>
1.	Data Completeness	Yes	
2.	Sample Preservation and Holding Times	Yes	
3.	Calibration	Yes	
	a. Initial Calibration Verification		
	b. Continuing Calibration Verification		
	c. Calibration Blank		
	d. CRDL Standard		
4.	Blanks	Yes	
	a. Laboratory Preparation Blank		
	b. Field Blank		
	c. Equipment Blank		
5.	ICP Interference Check Sample Analysis	N/A	
6.	Laboratory Control Sample Analysis	Yes	
7.	Spiked Sample Analysis	Yes	
8.	Laboratory Duplicate Sample Analysis	Yes	
9.	Field Duplicate Sample Analysis	Yes	
10.	GFAA QC Analysis	N/A	
	a. Duplicate Injections		
	b. Analytical Spikes		
	c. Method of Standard Addition		
11.	ICP Serial Dilution Analysis	N/A	
12.	Sample Quantitation	Yes	
13.	Sample Result Verification	Yes	

N/A = Not Applicable

## III. Overall Assessment of Data

All of the method requirements specified in the EPA Contract Laboratory Program (CLP) Inorganic Statement of Work (SOW) have been met. The reported results for perchlorate in all of the samples were appropriately and correctly calculated.

**ANALYTICAL RESULTS  
TABLE 1A**

Case Number: R99530  
Site: Newmark Source OU  
SDG: 99111D  
Reviewer: Lisa Norosky, Data Val, Inc.  
Date: 01/26/00

Analysis: Perchlorate  
Matrix: Water

Station Location	MUNI-24				MUNI-22				MUNI-13				MUNI-16				MUNI-16			
Sample ID	50084				50083				50075				50079				50080			
Lab Sample ID	AB22053				AB22054				AB22055				AB22056				AB22057			
Date of Collection	04/20/99				04/20/99				04/20/99				04/20/99				04/20/99			
Units	ug/L				ug/L				ug/L				ug/L				ug/L			
Analyte	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com
Perchlorate	5	U			5	U			5	U			5	U			5	U		

Q-Laboratory Data Qualifiers

Val-Validity; Refer to Data Qualifiers in Table 1B

Com-Comments; Refer to the Corresponding Section in the Narrative for each letter

N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc - Field Duplicate Pairs

FB-Field Blank, EB-Equipment Blank, TB-Trip Blank

BG-Background Sample

Station Location	MUNI-16				MUNI-14				CJ-6				CJ-16				MW01A			
Sample ID	50081				50078				50063				50064				50000			
Lab Sample ID	AB22058				AB22059				AB22060				AB22061				AB22062			
Date of Collection	04/20/99				04/20/99				04/15/99				04/15/99				04/20/99			
Units	ug/L				ug/L				ug/L				ug/L				ug/L			
Analyte	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com
Perchlorate	5	U			5	U			5	U			5	U			5	U		

Q-Laboratory Data Qualifiers

Val-Validity; Refer to Data Qualifiers in Table 1B

Com-Comments; Refer to the Corresponding Section in the Narrative for each letter

N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc - Field Duplicate Pairs

FB-Field Blank, EB-Equipment Blank, TB-Trip Blank

BG-Background Sample

Station Location	MW01B				MW01C				MW01D				MW01E				MW01F			
Sample ID	50001				50002				50003				50004				50005			
Lab Sample ID	AB22063				AB22064				AB22065				AB22122				AB22123			
Date of Collection	04/20/99				04/20/99				04/20/99				04/21/99				04/21/99			
Units	ug/L				ug/L				ug/L				ug/L				ug/L			
Analyte	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com
Perchlorate	5	U			5	U			5	U			5	U			5	U		

Q-Laboratory Data Qualifiers

Val-Validity; Refer to Data Qualifiers in Table 1B

Com-Comments; Refer to the Corresponding Section in the Narrative for each letter

N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc - Field Duplicate Pairs

FB-Field Blank, EB-Equipment Blank, TB-Trip Blank

BG-Background Sample

Station Location	MUNI-7B				MUNI-9B				MUNI-9B				MUNI-9B				MUNI-9C			
Sample ID	50048				50050				50051				50052				50053			
Lab Sample ID	AB22124				AB22125				AB22126				AB22127				AB22128			
Date of Collection	04/22/99				04/22/99				04/22/99				04/22/99				04/22/99			
Units	ug/L				ug/L				ug/L				ug/L				ug/L			
Analyte	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com
Perchlorate	5	U			5	U			5	U			5	U			5	U		

Q-Laboratory Data Qualifiers

Val-Validity; Refer to Data Qualifiers in Table 1B

Com-Comments; Refer to the Corresponding Section in the Narrative for each letter

N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc - Field Duplicate Pairs

FB-Field Blank, EB-Equipment Blank, TB-Trip Blank

BG-Background Sample

Station Location	Method Blank				N/A			
Sample ID	LRB				QL			
Lab Sample ID	AB22066				N/A			
Date of Collection	N/A				N/A			
Units	ug/L				ug/L			
Analyte	Result	Q	Val	Com	Result			
Perchlorate	5	U			5			

**TABLE 1B**

**DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW**

The definitions of the following qualifiers are prepared in accordance with the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," February 1994.

- U      The analyte was analyzed for, but was not detected above the level of the reported value. The reported value is either the sample quantitation limit or the sample detection limit for all the analytes except Cyanide (CN) and Mercury (Hg). For CN and Hg, the reported value is the Contract Required Detection Limit (CRDL).
- L      Indicates results which fall between the sample detection limit and the CRDL. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
- J      The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.
- R      The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte can not be verified.
- UJ     A combination of the "U" and the "J" qualifier. The analyte was analyzed for but was not detected. The reported value is an estimate and may be inaccurate or imprecise.

TPO: [ ]FYI [ ]Attention [ ]Action

Region 9

**INORGANIC REGIONAL DATA ASSESSMENT**

CASE NO. R99S30 LABORATORY R9

SDG NO. 99111D SITE NAME Newmark Source OU Superfund

SOW N/A REVIEW COMPLETION DATE January 26, 2000

REVIEWER DataVal, Inc. REVIEWER'S NAME Lisa Norosky, DataVal, Inc.

NO. OF SAMPLES 20 WATER     SOIL     OTHER    

	Perchlorate
1. PRESERVATION AND HOLDING TIMES	<u>0</u>
2. CALIBRATION	<u>0</u>
3. BLANKS	<u>0</u>
4. ICP INTERFERENCE CHECK SAMPLE (ICS)	<u>N/A</u>
5. LABORATORY CONTROL SAMPLE (LCS)	<u>0</u>
6. DUPLICATE ANALYSIS	<u>0</u>
7. MATRIX SPIKE ANALYSIS	<u>0</u>
8. METHOD OF STANDARD ADDITION (MSA)	<u>N/A</u>
9. ICP SERIAL DILUTION	<u>N/A</u>
10. SAMPLE QUANTITATION	<u>0</u>
11. SAMPLE VERIFICATION	<u>0</u>
12. GFAA ANALYTICAL SPIKE	<u>N/A</u>
13. OVERALL ASSESSMENT	<u>0</u>



O = Data have no problems or problems that do not affect data quality.

X = Data are qualified due to minor problems.

M = Data are qualified due to major problems.

Z = Data are unacceptable.

N/A = Not Applicable.

**TPO ACTION:** None.

**TPO ATTENTION:** None.

**AREAS OF CONCERN:** None.

MEMORANDUM

TO: Craig Cooper  
Remedial Project Manager, SFD-7

FROM: Donna Breau *DB 2/7/00*  
Senior Reviewer  
DataVal, Inc.

DATE: January 26, 2000

SUBJECT: Review of Analytical Data

Attached are comments resulting from DataVal, Inc. review of the following analytical data:

SITE: Newmark Source OU Superfund  
SITE ACCOUNT NO.: J5  
CERCLIS I.D. NO.: CAD981434517  
CASE NO.: R99S30  
SDG NO.: 99113C

LABORATORY: EPA Region 9 Laboratory, Richmond, CA  
ANALYSIS: Perchlorate

SAMPLE NO.: 19 Water Samples (See Case Summary)

COLLECTION DATE: April 20, 21, 26, and 27, 1999

REVIEWER: Lisa Norosky, DataVal, Inc.

If there are any questions, please contact Donna Breau (DataVal, Inc.) at (415) 459-3124, or Marlon Mezquita (QA Office/EPA) at (415) 744-1499.

Attachment

TPO: ☐ FYI ☐ Attention ☐ Action

SAMPLING ISSUES: ☐ Yes ☒ No

## Data Validation Report

Case No.: R99S30  
Site: Newmark Source OU Superfund  
Laboratory: EPA Region 9 Laboratory (R9)  
Reviewer: Lisa Norosky, DataVal, Inc.  
Date: January 26, 2000

### I. Case Summary

#### SAMPLE INFORMATION:

SAMPLE #: 50038, 50039, 50040, 50041, 50047, 50046,  
50045, 50044, 50033, 50032, 50031, 50024,  
50025, 50026, 50027, 50023, 50022, 50010, and  
50011

COLLECTION DATE: April 20, 21, 26, and 27, 1999  
SAMPLE RECEIPT DATE: April 23 and 28, 1999

CONCENTRATION & MATRIX: Low Level Water

FIELD QC: Field Blanks (FB): 50040  
Equipment Blanks (EB): None.  
Background Samples (BG): None.  
Duplicates (D1): 50038 and 50039

LABORATORY QC: Matrix Spike: 50038 and 50024  
Duplicates: 50038 and 50024  
ICP Serial Dilution: N/A

#### METHOD BLANKS AND ASSOCIATED SAMPLES:

LRB AB22141: 50038, 50039, 50040, 50041, 50047, 50046,  
50045, 50044, 50033, 50032, 50031, 50024,  
50025, 50026, 50027, 50023, 50022, 50010, and  
50011

ANALYSIS: Perchlorate

### Sample Preparation

<u>Analyte</u>	<u>Digestion Date</u>	<u>Analysis Date</u>
Perchlorate	Not Applicable	April 26 and May 3, 1999
Percent Solids		Not Applicable

**TPO ACTION:** None.

**TPO ATTENTION:** None

**SAMPLING ISSUES:** None

**ADDITIONAL COMMENTS:**

All method requirements specified in the EPA Contract Laboratory Program (CLP) Inorganic Statement of Work (SOW) have been met.

The analytical results with qualifications are listed in Table 1A. The definitions of the data qualifiers used in Table 1A are listed in Table 1B. This report was prepared in accordance with the EPA Contract Laboratory Program Inorganic Statement of Work (ILM04.0); and the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," February 1994.

## II. Validation Summary

The data were evaluated based on the following parameters:

<u>Parameter</u>	<u>Acceptable</u>	<u>Comment</u>
1. Data Completeness	Yes	
2. Sample Preservation and Holding Times	Yes	
3. Calibration	Yes	
a. Initial Calibration Verification		
b. Continuing Calibration Verification		
c. Calibration Blank		
d. CRDL Standard		
4. Blanks	Yes	
a. Laboratory Preparation Blank		
b. Field Blank		
c. Equipment Blank		
5. ICP Interference Check Sample Analysis	N/A	
6. Laboratory Control Sample Analysis	Yes	
7. Spiked Sample Analysis	Yes	
8. Laboratory Duplicate Sample Analysis	Yes	
9. Field Duplicate Sample Analysis	Yes	
10. GFAA QC Analysis	N/A	
a. Duplicate Injections		
b. Analytical Spikes		
c. Method of Standard Addition		
11. ICP Serial Dilution Analysis	N/A	
12. Sample Quantitation	Yes	
13. Sample Result Verification	Yes	

N/A = Not Applicable

## III. Overall Assessment of Data

All of the method requirements specified in the EPA Contract Laboratory Program (CLP) Inorganic Statement of Work (SOW) have been met. The reported results for perchlorate in all of the samples were appropriately and correctly calculated.

**ANALYTICAL RESULTS  
TABLE 1A**

Case Number: R99S30  
Site: Newmark Source OU  
SDG: 99113C  
Reviewer: Lisa Norosky, Data Val, Inc.  
Date: 01/26/00

Analysis: Perchlorate  
Matrix: Water

Station Location	MW-128B					MW-128B						MW-128B					MW-128C						MW-130C					
Sample ID	50038					50039						50040					50041						50047					
Lab Sample ID	AB22129					AB22130						AB22131					AB22132						AB22133					
Date of Collection	04/21/99					04/21/99						04/21/99					04/21/99						04/21/99					
Units	ug/L					ug/L						ug/L					ug/L						ug/L					
Analyte	Result	Q	Val	Com		Result	Q	Val	Com			Result	Q	Val	Com		Result	Q	Val	Com			Result	Q	Val	Com		
Perchlorate	5	U				5	U					5	U				5	U					5	U				

Q-Laboratory Data Qualifiers

Val-Validity; Refer to Data Qualifiers in Table 1B

Com-Comments; Refer to the Corresponding Section in the Narrative for each letter

N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc - Field Duplicate Pairs

FB-Field Blank, EB-Equipment Blank, TB-Trip Blank

BG-Background Sample

Station Location	MW-130B					MW-130A						MW-129C					MW11C						MW11B					
Sample ID	50046					50045						50044					50033						50032					
Lab Sample ID	AB22134					AB22135						AB22136					AB22137						AB22138					
Date of Collection	04/21/99					04/21/99						04/22/99					04/21/99						04/21/99					
Units	ug/L					ug/L						ug/L					ug/L						ug/L					
Analyte	Result	Q	Val	Com		Result	Q	Val	Com			Result	Q	Val	Com		Result	Q	Val	Com			Result	Q	Val	Com		
Perchlorate	5	U				5	U					5	U				5	U					5	U				

Q-Laboratory Data Qualifiers

Val-Validity; Refer to Data Qualifiers in Table 1B

Com-Comments; Refer to the Corresponding Section in the Narrative for each letter

N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc - Field Duplicate Pairs

FB-Field Blank, EB-Equipment Blank, TB-Trip Blank

BG-Background Sample

Station Location	MW11A					MW08B						MW08A					MW09A						MW09B					
Sample ID	50031					50024						50025					50026						50027					
Lab Sample ID	AB22139					AB22145						AB22146					AB22147						AB22148					
Date of Collection	04/21/99					04/26/99						04/26/99					04/26/99						04/26/99					
Units	ug/L					ug/L						ug/L					ug/L						ug/L					
Analyte	Result	Q	Val	Com		Result	Q	Val	Com			Result	Q	Val	Com		Result	Q	Val	Com			Result	Q	Val	Com		
Perchlorate	5	U				5	U					5	U				5	U					5	U				

Q-Laboratory Data Qualifiers

Val-Validity; Refer to Data Qualifiers in Table 1B

Com-Comments; Refer to the Corresponding Section in the Narrative for each letter

N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc - Field Duplicate Pairs

FB-Field Blank, EB-Equipment Blank, TB-Trip Blank

BG-Background Sample

Station Location	MW07B					MW07A						MW02A					MW20B											
Sample ID	50023					50022						50010					50011											
Lab Sample ID	AB22149					AB22150						AB22151					AB22152											
Date of Collection	04/26/99					04/26/99						04/27/99					04/27/99											
Units	ug/L					ug/L						ug/L					ug/L											
Analyte	Result	Q	Val	Com		Result	Q	Val	Com			Result	Q	Val	Com		Result	Q	Val	Com								
Perchlorate	5	U				5	U					5	U				5	U										

Q-Laboratory Data Qualifiers

Val-Validity; Refer to Data Qualifiers in Table 1B

Com-Comments; Refer to the Corresponding Section in the Narrative for each letter

N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc - Field Duplicate Pairs

FB-Field Blank, EB-Equipment Blank, TB-Trip Blank

BG-Background Sample

Station Location	Method Blank					N/A																							
Sample ID	LRB					QL																							
Lab Sample ID	AB22141					N/A																							
Date of Collection	N/A					N/A																							
Units	ug/L					ug/L																							
Analyte	Result	Q	Val	Com		Result																							
Perchlorate	5	U				5																							

**TABLE 1B**

**DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW**

The definitions of the following qualifiers are prepared in accordance with the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," February 1994.

- U      The analyte was analyzed for, but was not detected above the level of the reported value. The reported value is either the sample quantitation limit or the sample detection limit for all the analytes except Cyanide (CN) and Mercury (Hg). For CN and Hg, the reported value is the Contract Required Detection Limit (CRDL).
- L      Indicates results which fall between the sample detection limit and the CRDL. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
- J      The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.
- R      The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte can not be verified.
- UJ     A combination of the "U" and the "J" qualifier. The analyte was analyzed for but was not detected. The reported value is an estimate and may be inaccurate or imprecise.

TPO: [ ]FYI [ ]Attention [ ]Action

Region 9

**INORGANIC REGIONAL DATA ASSESSMENT**

CASE NO. R99S30 LABORATORY R9

SDG NO. 99113C SITE NAME Newmark Source OU Superfund

SOW N/A REVIEW COMPLETION DATE January 26, 2000

REVIEWER DataVal, Inc. REVIEWER'S NAME Lisa Norosky, DataVal, Inc.

NO. OF SAMPLES 19 WATER     SOIL     OTHER    

Perchlorate

- |  |            |
|--|------------|
| 1. PRESERVATION AND HOLDING TIMES      | <u>0</u>   |
| 2. CALIBRATION                         | <u>0</u>   |
| 3. BLANKS                              | <u>0</u>   |
| 4. ICP INTERFERENCE CHECK SAMPLE (ICS) | <u>N/A</u> |
| 5. LABORATORY CONTROL SAMPLE (LCS)     | <u>0</u>   |
| 6. DUPLICATE ANALYSIS                  | <u>0</u>   |
| 7. MATRIX SPIKE ANALYSIS               | <u>0</u>   |
| 8. METHOD OF STANDARD ADDITION (MSA)   | <u>N/A</u> |
| 9. ICP SERIAL DILUTION                 | <u>N/A</u> |
| 10. SAMPLE QUANTITATION                | <u>0</u>   |
| 11. SAMPLE VERIFICATION                | <u>0</u>   |
| 12. GFAA ANALYTICAL SPIKE              | <u>N/A</u> |
| 13. OVERALL ASSESSMENT                 | <u>0</u>   |



O = Data have no problems or problems that do not affect data quality.

X = Data are qualified due to minor problems.

M = Data are qualified due to major problems.

Z = Data are unacceptable.

N/A = Not Applicable.

**TPO ACTION:** None.

**TPO ATTENTION:** None.

**AREAS OF CONCERN:** None.